## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### **Declaration for Patent Application**

Supplemental (37 C.F.R. §1.67)

hamed inventor, I hereby declare that:

(Country)

(Number)

My residence, mailing address and citizenship are as stated next to my name;

invent is clai	tor (if plural names are med and for which a p	listed in the sign	atory page(s) commencing at page 2 the invention entitled	ea) or a hereof)	of the	ınaı, subj	tirst ect n	and jo	which
	Damage Tolerance	Using Adaptive N	Model-Based Methods						
the sp	ecification of which (c	heck one)							
[]	is attached hereto.								
[X]	was filed on January 22, 2004 as United States Application Number 10/763,573.								
[]	was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [and assigned United States Application No. [ ]].								
[]	and was amended on [ ] (if applicable).								
includ			nd understand the contents of the aboundment referred to above.	ve-ide	ntified	spec	ificat	ion,	
filing	, including for continu	ation-in-part appl	nformation which is material to paten ications, material information which ional or PCT international filing date	became	e availa	able l	betw	een th	
Unite for pa	entor's certificate, or o d States of America, li	of any PCT internated below and hat ficate, or of any P	its under 35 U.S.C. 119 or 365 of an ational application which designated ave also identified below, by checking of the international application having a	at least	one co ox, any	ountr	y oth	er tha	in the ation
		<u>P</u>	Prior Foreign Application(s)	N	ority lot imed			ified Filed N	? O
(Num	ber)	(Country)	(Day/Month/Year filed)	_ [	]	[	]	[	]
(Num	ber)	(Country)	(Day/Month/Year filed)	_ [	]	[	]	[	)
(Num	lber)	(Country)	(Day/Month/Year filed)	_ [	]	[	]	[	]



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole  or first inventor Neil J. Goldfine  Inventor's Signature It levelyn Read  Newton, Massachusetts 02468  Citizenship USA  Mailing Address same  Full name of second joint inventor, if any Vladimir A. Zilberstein  Inventor's Signature Vladimir A. Jilberstein Inventor's Signature It leads to the solution of the solutio	
Inventor's Signature	
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Full name of second joint inventor if any Vladimir A. Zilberstein 4.4.4.4	Date 5/26/04
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Full name of fourth joint	
inventor, if any Andrew P. Washabaugh	
Inventor's Signature Only P. Washesone I	Date <u>5/25/04</u>
·	Date
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Mailing Address same	

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

JUN 1 4 2004

# POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

Application Number	10/763,573	
Filing Date	January 22, 2004	
First Named Inventor	Neil J. Goldfine	
Confirmation Number	4895	
Group Art Unit	2857	
Examiner Name	Not assigned	
Attorney Docket Number	1884.2021-001	

Title	DAMAGE TOLERANCE USING ADAPTIVE MODEL-BASED METHODS

I/We hereby appoint				
[ X ] the attorneys/agents associated with Customer No. 021005				
[ ] Practitioner(s) named below:				
as my/our attorneys/agents to prosecute the application identified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected therewith.				
The correspondence address for the above-identified application is:				
[ X ] Customer Number 021005				
Hamilton, Brook, Smith & Reynolds, P.C.				
530 Virginia Road				
P.O. Box 9133				
Concord, Massachusetts 01742-9133				
[ ] Other				
Please direct all telephone calls and facsimiles to:				
Name James M. Smith, Esq. Tel. No. 978-341-0	036 Fax No. 978-341-0136			
l am the:				
[ ] Applicant/Inventor.				
[X] Authorized representative of the Assignee, JENTEK Sensors, Inc., of the entire interest. See 37 C.F.R. § 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.				
[ ] Authorized representative of the Assignee, [ ], together with [ ], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.				
SIGNATURE of Applicant or Assignee of Record				
Name & Title				
Signature Signature				
Date 6/1/04				



### STATEMENT UNDER 37 C.F.R. § 3.73(b)

Invento	r(s):	Neil J. Goldfine, Vladimir A. Zilberstein, David C. Grundy and Andrew P. Wa	shabaugh
Applica	ation No./	No./Patent No.: 10/763,573 Filed/Issue Date:	January 22, 2004
For:		DAMAGE TOLERANCE USING ADAPTIVE MODEL-BASED METHODS	
	JENTE	TEK Sensors, Inc. , a <u>corporation</u> (Name of Assignee) (Type of Assignee, e.g., corporation, partner	rship, university, government agency, etc.)
states th	nat it is	s	
Α.	[X]	the assignee of the entire right, title and interest in the patent application identified	fied above; or
В.	[ ]	an assignee together with [ ] of the entire right, title and interest in the above.	e patent application identified
The rig	ht, title a	e and interest of the above-named assignee in the patent application identified above	e is established by virtue of:
A. [ X ]	An assi and Tra	assignment from the inventor(s) of the patent application identified above. The assignment Office at Reel, Frame, or a copy the	gnment was recorded in the Pater ereof is attached.
OR			
B.[]	A chair	nain of title from the inventor(s) of the patent application identified above, to the cur	rrent assignee as shown below:
	1.	From: To:	_
		The document was recorded in the United States Patent and Trademark Office Reel, Frame, or a copy thereof is attached.	at
	2.	From:To:	
		The document was recorded in the United States Patent and Trademark Office Reel, Frame, or a copy thereof is attached.	at
	3.	From:To:	_
		The document was recorded in the United States Patent and Trademark Office Reel, Frame, or a copy thereof is attached.	at
	[ ] Ac	Additional documents in the chain of title are listed on a supplemental sheet.	
The und	dersigned	ned (whose title is supplied below) is authorized to act on behalf of the assignee.	
Date:	6	6/2/0f	
Name:_	<u>U</u>	Joni Claten	
Title:_	Vi	ice President	
Signatu	ire:	hi Notan	

#### <u>ASSIGNMENT</u>



WHEREAS, we, Neil J. Goldfine, Vladimir A. Zilberstein, David C. Grundy and Andrew P. Washabaugh, have invented a certain improvement in Damage Tolerance Using Adaptive Model-Based Methods described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/763,573, filed January 22, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [ ], which designates the United States of America;
[]	which was patented under United States Patent No. [ ].

WHEREAS, JENTEK Sensors, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 110-1 Clematis Avenue, Waltham, Massachusetts, 02453-7013, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America. its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts

which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

Inventor's Signature: Wadiniy a. Gilblostein				
Vladimir A. Zilberstein				
State/Commonwealth				
of <u>Massachusetts</u>				
County of <u>Hiddlesey</u>				
On this 26th day of May, 2004, before me, the undersigned notary public, personally appeared Vladimir A. Zilberstein,				
personally known to me, or				
proved to me through satisfactory evidence of identification, which was				
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.				
(SEAL) Kathleen M. Surprenant (print name)				
Kathleen M. Surprenant (print name)				
My Commission expires 1 1 22 1 2010				
Inventor's Signature:  David C Grundy				
Inventor's Signature:  David C. Grundy  State/Commonwealth				
David C. Grundy State/Commonwealth				
David C. Grundy				
State/Commonwealth of <u>Massachusette</u>				
State/Commonwealth  of <u>MasSachusetts</u> County of <u>Middlesex</u> On this 11 th day of May , 20 04, before me, the undersigned				
State/Commonwealth  of <u>Mas Sachu Setts</u> County of <u>Middleses</u> On this <u>// Hh</u> day of <u>May</u> , 20 04, before me, the undersigned notary public, personally appeared <b>David C. Grundy</b> ,				
State/Commonwealth  of				
State/Commonwealth  of				
State/Commonwealth  of   Mas Sachusetts  County of   Middleset  On this   // Hi day of   May , 20 04, before me, the undersigned notary public, personally appeared   David C. Grundy,  personally known to me, or  proved to me through satisfactory evidence of identification, which was   to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.				

Inventor's Signature: Audiew F. Wahabayl					
Andrew P. Washabaugh State/Commonwealth					
of California					
County of San DE	90				
On this 29 day of	of May, 2	20_04_, before me, the undersigned			
	peared Andrew P. Washaban				
personally known to me, or					
proved to me through satisfactory evidence of identification, which was					
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.					
acknowledged that he/sac signed the foregoing instrument as inside free act and accus					
(SEAL) HEIDI ADAMS	Howkey	Notary Public			
Commission # 1399125	HEIDI Adams	(print name)			
Notary Public - California San Diego County My Comm. Expires Feb 8, 2007		02 / 08 / 07			
NO BALCOMM EVOIGETAD N /UU/F	ivij Commission expires _				